

Contents of Volume 46

Number 1

- 1 A Framework to Deal with Uncertainty in Soil and Management Parameters in Crop Yield Simulation: A Case Study for Rice
B. A. M. BOUMAN (The Netherlands)
- 19 An Analysis of Alternative Cropping Decision Rules
F. S. NOVAK, G. W. ARMSTRONG (Canada), C. R. TAYLOR (USA) & L. BAUER (Canada)
- 33 Potential for Short-Rotation Intensive-Culture Hardwood Production in Hawaii
V. D. PHILLIPS, W. LIU, R. A. MERRIAM & D. SINGH (USA)
- 59 Soil Conservation Practices and Farm Income in the Dominican Republic
S. W. HWANG, J. ALWANG & G. W. NORTON (USA)
- 79 Regional Yield Estimation using a Crop Simulation Model: Concepts, Methods, and Validation
T. N. MOEN, H. M. KAISER & S. J. RIHA (USA)
- 93 The Use of Crop Yield Prediction as a Tool for Land Evaluation Studies in Northern Australia
A. K. L. JOHNSON, R. A. CRAMB & M. K. WEGENER (Australia)
- 113 Book Reviews

Number 2

- 121 Modelling Tillering of Annual Grasses as a Function of Plant Density: Application to Sahelian Rangelands Productivity and Dynamics
P. HIERNAUX (Niger), P. N. DE LEEUW (Kenya) & L. DIARRA (Mali)
- 141 Cooperation and Innovation by Farmer Groups: Scale in the Development of Rwandan Valley Farming Systems
M. E. LOEVINSOHN, J. MUGARURA & A. NKUSI (Rwanda)
- 157 Risk–Return Substitutions in Cattle Marketing Systems in Alabama
E. F. KOLAJO (South Africa) & N. R. MARTIN JR (USA)
- 169 Rice–Wheat in South Asia: Systems and Long-Term Priorities Established Through Diagnostic Research
S. FUJISAKA (The Philippines), L. HARRINGTON (Mexico) & P. HOBBS (Nepal)
- 189 Perception and Management of Farmyard Manure in the Semi-Arid Tropics of India
P. P. MOTAVALLI (USA), R. P. SINGH & M. M. ANDERS (India)

- 205 A Simulation Model of an Alpaca System in the Dry Puna of the Andes
B. A. ARCE (Ecuador), C. AGUILAR, R. CAÑAS (Chile) & R. A. QUIROZ (Bolivia)
- 227 Identifying Target Groups for Livestock Improvement Research: The Classification of Sedentary Livestock Producers in Western Niger
T. O. WILLIAMS (Niger)
- 239 Book Reviews

Number 3

- 245 Complementary Instruments to EEC Nitrogen Policy in Non-sensitive Areas: A Case Study in Southern Spain
S. ZEKRI & A. CASIMIRO HERRUZO (Spain)
- 257 Potential Production of *Boro* Rice in the Haor Region of Bangladesh: Part 1. The Simulation Model, Validation and Sensitivity Analysis
M. U. SALAM, P. R. STREET & J. G. W. JONES (UK)
- 279 Potential Production of *Boro* Rice in the Haor Region of Bangladesh: Part 2. Simulation Experiments on the Effects of Management Variables and Flooding Time
M. U. SALAM, P. R. STREET & J. G. W. JONES (UK)
- 295 Potential Production of *Boro* Rice in the Haor Region of Bangladesh: Part 3. Normative Analysis Using a Simulation Model
M. U. SALAM, P. R. STREET & J. G. W. JONES (UK)
- 311 An Optimization Model of the Dual-Purpose Cattle Production System in the Humid Lowlands of Venezuela
C. F. NICHOLSON, D. R. LEE, R. N. BOISVERT, R. W. BLAKE (USA) & C. I. URBINA (Costa Rica)
- 335 CropSyst, a Cropping Systems Simulation Model: Water/Nitrogen Budgets and Crop Yield
C. O. STOCKLE, S. A. MARTIN & G. S. CAMPBELL (USA)
- 361 Book Reviews

Number 4

- 369 Adoption of Soybean in Sub-Saharan Africa: A Comparative Analysis of Production and Utilization in Zaire and Nigeria
D. A. SHANNON (USA) & MWAMBA KALALA M. (Zaire)
- 385 Characterization of Rice Cropping Practices and Multiple Pest Systems in the Philippines
S. SAVARY, F. A. ELAZEGUI, K. MOODY, J. A. LITSINGER & P. S. TENG (Philippines)
- 409 Learning from Six Reasons Why Farmers Do Not Adopt Innovations Intended to Improve Sustainability of Upland Agriculture
S. FUJISAKA (Philippines)

- 427 A Technique to Develop and Validate Simulation Models
P. N. JONES & P. S. CARBERRY (Australia)
- 443 Returns to Beef Research in Canada: A Comparison of Time Series and
Mathematical Programming Approaches
K. K. KLEIN, B. FREEZE, J. S. CLARK & G. FOX (Canada)
- 461 Econometric Analysis of Private Access to Communal Grazing Lands in South
Africa: A Case Study of Ciskei
F. D. K. ANIM & M. C. LYNE (South Africa)
- 473 Book Reviews